

Please type a plus sign (+) inside this box → +

PTO/SB/08a (07-05)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

|   |      |                        |                             |                        |
|---|------|------------------------|-----------------------------|------------------------|
| Substitute for form 1449A/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(Use as many sheets as necessary)</i> |      |                        | Application Number          | 10/611,589             |
|   |      |                        | Filing Date                 | June 30, 2003          |
|   |      |                        | First Named Inventor        | Chen, et al.           |
|   |      |                        | Group Art Unit              | 1742                   |
|   |      |                        | Examiner Name               | George P. Wyszomierski |
| Sheet 1   | of 4 | Attorney Docket Number | APPM/001717.Y1/PPC/ECP/CKIM |                        |

### U.S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where Relevant<br>Passages or Relevant Figures Appear |
|--------------------|-----------------------|--|--------------------------------|--|--|
|                    |                       | Number-Kind Code <sup>2</sup> (if known) |                                |  |  |
| GW                 | A1                    | US-6929774                               | 08/16/2005                     | Morad, et al.                                      |  |
| GW                 | A2                    | US-6658763                               | 12/09/2003                     | Morad, et al.                                      |  |
| GW                 | A3                    | US-6639189                               | 10/28/2003                     | Ramana, et al.                                     |  |
| GW                 | A4                    | US-6635157                               | 10/21/2003                     | Dordl, et al.                                      |  |
| GW                 | A5                    | US-6566255                               | 05/20/2003                     | Ito  |  |
| GW                 | A6                    | US-6544338                               | 04/08/2003                     | Batchelder, et al.                                 |  |
| GW                 | A7                    | US-6532772                               | 03/18/2003                     | Robinson   |  |
| GW                 | A8                    | US-6529686                               | 03/04/2003                     | Ramana, et al.                                     |  |
| GW                 | A9                    | US-6512206                               | 01/28/2003                     | McEntire, et al.                                   |  |
| GW                 | A10                   | US-6483081                               | 11/19/2002                     | Batchelder   |  |
| GW                 | A11                   | US-6477787                               | 11/12/2002                     | Morad, et al.                                      |  |
| GW                 | A12                   | US-6473993                               | 11/05/2002                     | Yagi, et al.                                       |  |
| GW                 | A13                   | US-6471913                               | 10/29/2002                     | Weaver, et al.                                     |  |
| GW                 | A14                   | US-6423947                               | 07/23/2002                     | Womack, et al.                                     |  |
| GW                 | A15                   | US-6387182                               | 05/14/2002                     | Horle, et al.                                      |  |
| GW                 | A16                   | US-6357143                               | 03/19/2002                     | Morad, et al.                                      |  |
| GW                 | A17                   | US-6307184                               | 10/23/2001                     | Womack, et al.                                     |  |
| GW                 | A18                   | US-6297154                               | 10/02/2001                     | Gross, et al.                                      |  |
| GW                 | A19                   | US-6296906                               | 10/02/2001                     | Stimmell, et al.                                   |  |
| GW                 | A20                   | US-6294219                               | 09/25/2001                     | Tsai, et al.                                       |  |
| GW                 | A21                   | US-6290833                               | 09/18/2001                     | Chen   |  |
| GW                 | A22                   | US-6276072                               | 08/21/2001                     | Morad, et al.                                      |  |
| GW                 | A23                   | US-6264752                               | 07/24/2001                     | Curtis, et al.                                     |  |
| GW                 | A24                   | US-6263587                               | 07/24/2001                     | Raaijmakers, et al.                                |  |
| GW                 | A25                   | US-6258223                               | 07/10/2001                     | Cheung, et al.                                     |  |
| GW                 | A26                   | US-6242349                               | 06/29/2001                     | Nogami, et al.                                     |  |
| GW                 | A27                   | US-6228768                               | 05/08/2001                     | Woo, et al.  |  |
| GW                 | A28                   | US-6222164                               | 04/24/2001                     | Stoddard, et al.                                   |  |
| GW                 | A29                   | US-6213853                               | 04/10/2001                     | Gonzalez-Martin, et al.                            |  |

Examiner /George Wyszomierski/

Date Considered 09/01/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 801.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-766-9199) and select option 2.

Please type a plus sign (+) inside this box → +

PTO/SB/08a (07-05)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

|   |   |                      |                        |                        |                             |
|---|---|----------------------|------------------------|------------------------|-----------------------------|
| Substitute for form 1449A/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(Use as many sheets as necessary)</i> |   | Application Number   | 10/611,589             |                        |                             |
|   |   | Filing Date          | June 30, 2003          |                        |                             |
|   |   | First Named Inventor | Chen, et al.           |                        |                             |
|   |   | Group Art Unit       | 1742                   |                        |                             |
|   |   | Examiner Name        | George P. Wyszomierski |                        |                             |
| Sheet   | 2 | of                   | 4                      | Attorney Docket Number | APPM/001717.Y1/PPC/ECP/CKIM |

| U.S. PATENT DOCUMENTS |                          |  |                                |  |   |
|-----------------------|--------------------------|--|--------------------------------|--|---|
| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|                       |                          | Number-Kind Code <sup>2</sup> (if known) |                                |  |   |
| GW                    | A30                      | US-6211495                               | 04/03/2001                     | Stoddard, et al.                                   |   |
| GW                    | A31                      | US-6207937                               | 03/27/2001                     | Stoddard, et al.                                   |   |
| GW                    | A32                      | US-6182376                               | 02/06/2001                     | Shin, et al.                                       |   |
| GW                    | A33                      | US-6174388                               | 01/16/2001                     | Sikka, et al.                                      |   |
| GW                    | A34                      | US-6171922                               | 01/09/2001                     | Maghsoudnia  |   |
| GW                    | A35                      | US-6155275                               | 12/05/2000                     | Shinbara, Kaoru                                    |   |
| GW                    | A36                      | US-6151447                               | 11/21/2000                     | Moore, et al.                                      |   |
| GW                    | A37                      | US-6123825                               | 09/26/2000                     | Uzoh, et al.                                       |   |
| GW                    | A38                      | US-6113698                               | 09/05/2000                     | Raajimakers, et al.                                |   |
| GW                    | A39                      | US-6103638                               | 08/15/2000                     | Robinson   |   |
| GW                    | A40                      | US-6091498                               | 07/18/2000                     | Hanson, et al.                                     |   |
| GW                    | A41                      | US-6072163                               | 06/06/2000                     | Armstrong, et al.                                  |   |
| GW                    | A42                      | US-6062852                               | 05/16/2000                     | Kawamoto, et al.                                   |   |
| GW                    | A43                      | US-6037257                               | 03/14/2000                     | Chiang, et al.                                     |   |
| GW                    | A44                      | US-6030208                               | 02/29/2000                     | Williams, et al.                                   |   |
| GW                    | A45                      | US-6017820                               | 01/25/2000                     | Ting, et al.                                       |   |
| GW                    | A46                      | US-6017777                               | 01/25/2000                     | Kim, et al.  |   |
| GW                    | A47                      | US-6004047                               | 12/21/1999                     | Akimoto, et al.                                    |   |
| GW                    | A48                      | US-5997712                               | 12/07/1999                     | Ting, et al.                                       |   |
| GW                    | A49                      | US-5994875                               | 11/30/1999                     | Bethune, et al.                                    |   |
| GW                    | A50                      | US-5980706                               | 11/09/1999                     | Bleck, et al.                                      |   |
| GW                    | A51                      | US-5972110                               | 10/26/1999                     | Akimoto, Masami                                    |   |
| GW                    | A52                      | US-5913147                               | 08/15/1999                     | Dubin, et al.                                      |   |
| GW                    | A53                      | US-5907790                               | 05/25/1999                     | Kellam   |   |
| GW                    | A54                      | US-5891513                               | 04/06/1999                     | Dubin, et al.                                      |   |
| GW                    | A55                      | US-5885749                               | 03/23/1999                     | Huggins, et al.                                    |   |
| GW                    | A56                      | US-5885134                               | 03/23/1999                     | Shibata, et al.                                    |   |
| GW                    | A57                      | US-5855681                               | 01/05/1999                     | Maydan, et al.                                     |   |
| GW                    | A58                      | US-5853486                               | 12/29/1998                     | Ono, et al.  |   |

|                                |                            |
|--------------------------------|----------------------------|
| Examiner /George Wyszomierski/ | Date Considered 09/01/2006 |
|--------------------------------|----------------------------|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1460, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 3

of 4

Application Number

10/611,589

Filing Date

June 30, 2003

First Named Inventor

Chen, et al.

Group Art Unit

1742

Examiner Name

George P. Wyszomierski

Attorney Docket Number

APPM/001717.Y1/PPC/ECP/CKIM

**U.S. PATENT DOCUMENTS**

| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where Relevant<br>Passages or Relevant Figures Appear |
|-----------------------|--------------------------|--|--------------------------------|--|--|
|                       |                          | Number-Kind Code <sup>2</sup> (if known) |                                |  |  |
| GW                    | A59                      | US-5846598                               | 12/08/1998                     | Semkow, et al.                                     |  |
| GW                    | A60                      | US-5830045                               | 11/03/1998                     | Togawa, et al.                                     |  |
| GW                    | A61                      | US-5807469                               | 09/15/1998                     | Crafts, et al.                                     |  |
| GW                    | A62                      | US-5731878                               | 03/24/1998                     | Zila, et al.                                       |  |
| GW                    | A63                      | US-5681780                               | 10/28/1997                     | Mihara, et al.                                     |  |
| GW                    | A64                      | US-5673750                               | 10/03/1997                     | Tsubone, et al.                                    |  |
| GW                    | A65                      | US-5665187                               | 09/09/1997                     | Deguchi, et al.                                    |  |
| GW                    | A66                      | US-5664337                               | 09/09/1997                     | Davis, et al.                                      |  |
| GW                    | A67                      | US-5639301                               | 06/17/1997                     | Sasada, et al.                                     |  |
| GW                    | A68                      | US-5616208                               | 04/01/1997                     | Lee  |  |
| GW                    | A69                      | US-5609688                               | 03/11/1997                     | Hayashi, et al.                                    |  |
| GW                    | A70                      | US-5527390                               | 06/18/1996                     | Ono, et al.  |  |
| GW                    | A71                      | US-5510218                               | 04/23/1996                     | Calabrese, et al.                                  |  |
| GW                    | A72                      | US-5484011                               | 01/16/1996                     | Tepman, et al.                                     |  |
| GW                    | A73                      | US-5478429                               | 12/26/1995                     | Komino, et al.                                     |  |
| GW                    | A74                      | US-5431700                               | 07/11/1995                     | Sloan  |  |
| GW                    | A75                      | US-5384284                               | 01/24/1995                     | Doan, et al.                                       |  |
| GW                    | A76                      | US-5374594                               | 12/20/1994                     | Van de Ven, et al.                                 |  |
| GW                    | A77                      | US-5314541                               | 05/24/1994                     | Saito, et al.                                      |  |
| GW                    | A78                      | US-5287910                               | 03/29/1994                     | Yoshioka, et al.                                   |  |
| GW                    | A79                      | US-5248384                               | 09/28/1993                     | Lin, et al.  |  |
| GW                    | A80                      | US-5168886                               | 12/08/1992                     | Thompson, et al.                                   |  |
| GW                    | A81                      | US-5156731                               | 10/20/1992                     | Ogasawara, et al.                                  |  |
| GW                    | A82                      | US-5098198                               | 03/24/1992                     | Nulman, et al.                                     |  |
| GW                    | A83                      | US-4854263                               | 08/08/1989                     | Chang, et al.                                      |  |
| GW                    | A84                      | US-4481406                               | 11/08/1984                     | Muka, et al.                                       |  |
| GW                    | A85                      | US-4265943                               | 05/05/1981                     | Goldstein, et al.                                  |  |
| GW                    | A86                      | US-2026605                               | 01/07/1936                     | Antisell   |  |
| GW                    | A87                      | US-2004/0084301                          | 05/08/2004                     | Dordl, et al.                                      |  |

Examiner

/George Wyszomierski/

Date Considered

09/01/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.87 and 1.88. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-788-9199) and select option 2.

|   |      |                        |                              |                        |
|---|------|------------------------|------------------------------|------------------------|
| Substitute for form 1449A/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(Use as many sheets as necessary)</i> |      |                        | Application Number           | 10/611,589             |
|   |      |                        | Filing Date                  | June 30, 2003          |
|   |      |                        | First Named Inventor         | Chen, et al.           |
|   |      |                        | Group Art Unit               | 1742                   |
|   |      |                        | Examiner Name                | George P. Wyszomierski |
| Sheet 4   | of 4 | Attorney Docket Number | APPM/001717.Y1/PPC/ECPI/CKIM |                        |

**U.S. PATENT DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|--------------------|-----------------------|--|--------------------------------|--|---|
|                    |                       | Number-Kind Code <sup>2</sup> (if known) |                                |  |   |
| GW                 | A88                   | US-2004/0079633                          | 04/29/2004                     | Cheung, et al.                                     |   |
| GW                 | A89                   | US-2003/0045095                          | 03/06/2003                     | Ritzdorf, et al.                                   |   |
| GW                 | A90                   | US-2002/0102837                          | 08/01/2002                     | Ritzdorf, et al.                                   |   |
| GW                 | A91                   | US-2002/0004301                          | 01/10/2002                     | Chen, et al.                                       |   |

**FOREIGN PATENT DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Foreign Patent Document   | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages or<br>Relevant Figures Appear | T <sup>6</sup> |
|--------------------|-----------------------|---|--------------------------------|--|---|----------------|
|                    |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                                |  |   |                |
| GW                 | B1                    | JP 54 148112  | 11/20/1979                     | Nakagawa   |   |                |
| GW                 | B2                    | JP 10 079432  | 03/24/1998                     | Ro   |   | X              |
| GW                 | B3                    | EP 0829904  | 03/18/1998                     | Rogelstad  |   | X              |
| GW                 | B4                    | EP 0725427  | 08/07/1998                     | Davenport  |   | X              |

**NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T <sup>2</sup> |
|--------------------|-----------------------|--|----------------|
| GW                 | C1                    | Austrian Patent Office International Search Report dated February 7, 2000 for Singapore Application No. 00010504. (APPM/003421SG)  |                |
| GW                 | C2                    | Decision on First Patent Examination by Taiwan Intellectual Property Office, Ministry of Economic Affairs dated April 9, 2002 and cited reference 88103261. (APPM/001717TW03)  |                |
| GW                 | C3                    | Hohm, et al. "Stationary Contacts," Electric Contacts Theory and Applications, Springer-Verlag, New York, Inc. 1967, pp.1-375.   |                |
|                    | <del>C4</del>         | <del>Verlag Online®, "Products Overview," 1998-1999, 5 pages (No Month).</del>   |                |
| GW                 | C5                    | Wright, et al. "Low temperature etch chuck: Modeling and experimental results of heat transfer and wafer temperature," J. Vac. Sci. Technol. A. 10(4), Jul./Aug. 1992, pp. 1065-1070.  |                |
|                    |                       |  |                |
|                    |                       |  |                |

Examiner /George Wyszomierski/

Date Considered 09/01/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 801.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1460, Alexandria, VA 22313-1460. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.